

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: March 1, 2001, 15:47:20 ; Search time 210.42 Seconds
(without alignments)
7.638 Million cell updates/sec

Title: US-09-331-631A-8_COPY_33_79
Perfect score: 2/5
Sequence: 1 GDDPPKRYEDCRRRCCEWDT.....OCESCKSYGKEDQOGRHR 47

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 268485 seqs, 34193795 residues
Total number of hits satisfying chosen parameters: 268485

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

A_Geneseq_36.*
1: /SIDSI/gcgdata/geneseq/AA1980.DAT.*
2: /SIDSI/gcgdata/geneseq/AA1981.DAT.*
3: /SIDSI/gcgdata/geneseq/AA1982.DAT.*
4: /SIDSI/gcgdata/geneseq/AA1983.DAT.*
5: /SIDSI/gcgdata/geneseq/AA1984.DAT.*
6: /SIDSI/gcgdata/geneseq/AA1985.DAT.*
7: /SIDSI/gcgdata/geneseq/AA1986.DAT.*
8: /SIDSI/gcgdata/geneseq/AA1987.DAT.*
9: /SIDSI/gcgdata/geneseq/AA1988.DAT.*
10: /SIDSI/gcgdata/geneseq/AA1989.DAT.*
11: /SIDSI/gcgdata/geneseq/AA1990.DAT.*
12: /SIDSI/gcgdata/geneseq/AA1991.DAT.*
13: /SIDSI/gcgdata/geneseq/AA1992.DAT.*
14: /SIDSI/gcgdata/geneseq/AA1993.DAT.*
15: /SIDSI/gcgdata/geneseq/AA1994.DAT.*
16: /SIDSI/gcgdata/geneseq/AA1995.DAT.*
17: /SIDSI/gcgdata/geneseq/AA1996.DAT.*
18: /SIDSI/gcgdata/geneseq/AA1997.DAT.*
19: /SIDSI/gcgdata/geneseq/AA1998.DAT.*
20: /SIDSI/gcgdata/geneseq/AA1999.DAT.*
21: /SIDSI/gcgdata/geneseq/AA2000.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|-----------|--------------------|
| 1 | 275 | 100.0 | 590 | 19 W62832 | Gossypium hirsutum |
| 2 | 124 | 45.1 | 525 | 19 W62831 | Theobroma cacao an |
| 3 | 124 | 45.1 | 566 | 13 R20181 | Sequence encoded b |
| 4 | 94 | 34.2 | 666 | 19 W62829 | Macadamia integrif |
| 5 | 92 | 33.5 | 666 | 19 W62828 | Macadamia integrif |
| 6 | 88 | 32.0 | 625 | 19 W62830 | Macadamia integrif |
| 7 | 62 | 22.5 | 360 | 20 W33492 | Human Machado-Jose |
| 8 | 61 | 22.2 | 28 | 19 W62841 | Stenocarpus sinuat |
| 9 | 61 | 22.2 | 265 | 12 R12844 | HTLV-1 protein exp |
| 10 | 60 | 21.8 | 259 | 20 W90009 | Expressed antigen |
| 11 | 60 | 21.8 | 303 | 15 R60054 | Chlamydia immuti |
| 12 | 60 | 21.8 | 810 | 20 Y35710 | Chlamydia pneumoni |

| | | | | | |
|----|------|------|------|-----------|---------------------|
| 13 | 60 | 21.8 | 810 | 20 Y34602 | Chlamydia pneumoni |
| 14 | 60 | 21.8 | 1743 | 19 W98879 | H. pylori GHP0 175 |
| 15 | 59.5 | 21.6 | 593 | 19 W62835 | Zea mays antimicro |
| 16 | 59 | 21.5 | 491 | 18 W35292 | Human disintegrin |
| 17 | 59 | 21.5 | 691 | 21 Y79033 | Human Kuz amino ac |
| 18 | 59 | 21.5 | 748 | 19 W70457 | Mutant human disin |
| 19 | 59 | 21.5 | 748 | 19 W56132 | Homo sapiens trans |
| 20 | 59 | 21.5 | 748 | 20 Y16776 | Human disintegrin |
| 21 | 59 | 21.5 | 799 | 18 W35293 | Human disintegrin |
| 22 | 59 | 21.5 | 799 | 19 W70456 | Human disintegrin |
| 23 | 59 | 21.5 | 2150 | 21 Y53898 | Amino acid sequenc |
| 24 | 58 | 21.1 | 71 | 21 Y74316 | Neisseria meningit |
| 25 | 58 | 21.1 | 84 | 21 Y74315 | Neisseria meningit |
| 26 | 57.5 | 20.9 | 162 | 20 Y30436 | Acute nematode ex |
| 27 | 57.5 | 20.9 | 181 | 17 R91711 | AcNAP45. Ankylos |
| 28 | 57.5 | 20.9 | 181 | 20 Y30409 | Nematode extracted |
| 29 | 57.5 | 20.9 | 443 | 18 W22110 | Human extracellular |
| 30 | 57.5 | 20.9 | 443 | 20 Y16587 | Human extracellular |
| 31 | 57.5 | 20.9 | 443 | 21 Y84706 | Amino acid sequenc |
| 32 | 57.5 | 20.9 | 443 | 21 Y84707 | A human p53 mutant |
| 33 | 57.5 | 20.9 | 443 | 21 Y55850 | Human SI-5 FCMF-1i |
| 34 | 57.5 | 20.9 | 671 | 21 Y99426 | Human PRO1604 (UNQ |
| 35 | 57 | 20.7 | 342 | 20 Y16785 | Human secreted pro |
| 36 | 57 | 20.7 | 1898 | 20 Y30795 | A human trichohyal |
| 37 | 56.5 | 20.5 | 174 | 20 W89904 | Antigen from clust |
| 38 | 56.5 | 20.5 | 432 | 20 W93954 | Human regulatory m |
| 39 | 56 | 20.4 | 267 | 20 W89907 | Antigen from clust |
| 40 | 55.5 | 20.2 | 434 | 17 R96419 | Peptide fragment o |
| 41 | 55.5 | 20.2 | 434 | 17 R96420 | Peptide fragment o |
| 42 | 55.5 | 20.2 | 2237 | 14 R33550 | Sequence of the al |
| 43 | 55.5 | 20.2 | 2237 | 16 R71006 | Human neuronal cal |
| 44 | 55.5 | 20.2 | 2237 | 19 W63142 | Human calcium chan |
| 45 | 55.5 | 20.2 | 2337 | 19 W37878 | Human calcium chan |

ALIGNMENTS

| | |
|--|----------------------------|
| RESULT 1 | |
| ID W62832 | standard; Protein: 590 AA. |
| XX W62832: | |
| XX 27-OCT-1998 (first entry) | |
| XX Gossypium hirsutum antimicrobial protein. | |
| XX DE antimicrobial protein; infestation; control. | |
| XX KW Gossypium hirsutum. | |
| XX OS | |
| XX PN W09827805-A1. | |
| XX PD 02-JUL-1998. | |
| XX PF 22-DEC-1997; 97W0-AU00874. | |
| XX PR 20-DEC-1996; 96AU-0004275. | |
| XX PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY. | |
| XX PI Bower NF, Goulter KC, Green JL, Mannes JM, Marcus JP. | |
| XX DR WPI: 1998-377279/32. | |
| XX PT Novel anti-microbial protein from e.g. Macadamia integrifolia - | |
| XX PR useful for controlling microbial infestations of plants or mammals | |
| XX PS Claim 1: Page 49-51; 96pp; English. | |
| XX CC The sequence is that of an antimicrobial protein which can | |
| CC be used to control microbial infestations in plants and mammalian | |

[illegible]

| | |
|----|--|
| XX | antimicrobial protein; infestation; control. |
| KW | |
| OS | <i>Stenocarpus sinuatus</i> . |
| PN | WO9827805-A1. |
| XX | |
| PD | 02-JUL-1998. |
| XX | |
| PF | 22-DEC-1997; 97WO-AU00874. |
| XX | |
| PR | 20-DEC-1996; 96AU-0004275. |
| XX | |
| PA | (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY. |
| PI | Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP; |
| XX | |
| DR | WPI: 1998-377279/32. |
| XX | |
| PT | Novel anti-microbial protein from e.g. <i>Macadamia integrifolia</i> - |
| XX | useful for controlling microbial infestations of plants or mammals |
| PS | Claim 1; Page 66; 96pp; English. |
| XX | |
| CC | The sequence is that of an antimicrobial protein which can |
| CC | be used to control microbial infestations in plants and mammalian |
| CC | animals. |
| XX | |
| XX | |
| 50 | Sequence 28 AA; |

| | | | | | |
|-----------------------|---|------------------------------|----------|-----------|--|
| Query Match | 22.2% | Score 61 | DB 19 | Length 28 | |
| Best Local Similarity | 33.3% | Pred. NO. 1.2 | | | |
| Matches 9 | Conservative 9 | Mismatches 9 | Indels 0 | Gaps 0 | |
| QY | 4 | DPPKRYEDCRRRCCEWDTRGQEKDOOCE | 30 | | |
| | : : : | | | | |
| DB | 2 | dpirgqglcgmrcqgqekdprrgqgck | 28 | | |
| RESULT | 9 | | | | |
| R12844 | | | | | |
| ID | R12844 | standard; Protein; 265 | AA. | | |
| XX | | | | | |
| AC | R12844; | | | | |
| XX | | | | | |
| DT | 18-SEP-1991 | (first entry) | | | |
| XX | | | | | |
| DE | HTLV-1 protein expressed by antisense nucleotides 1589-2383. | | | | |
| XX | | | | | |
| KW | human T-cell lymphotropic virus-1; ORF; vaccine; antisense RNA. | | | | |
| XX | | | | | |
| OS | Human T cell lymphotropic virus. | | | | |
| XX | | | | | |
| PN | US499421-A. | | | | |
| XX | | | | | |
| PD | 12-MAR-1991. | | | | |
| XX | | | | | |
| PE | 27-JUN-1988; | 88US-0211749. | | | |
| XX | | | | | |
| PR | 27-JUN-1988; | 88US-0211749. | | | |
| XX | | | | | |
| PA | (TRIT-) TRITON BIOSCIENCES. | | | | |
| XX | | | | | |
| PI | Brunck TK, Larocca DJ, Monahan JJ; | | | | |
| XX | | | | | |
| DR | WP1; 1991-206841/28. | | | | |
| XX | | | | | |
| DR | N-PSDB; Q12502. | | | | |
| XX | | | | | |
| PT | Proteins encoded by ribonucleic acid anti-sense strand - to human | | | | |
| PT | T-cell leukemia virus 1 viral RNA useful as diagnostic agents, | | | | |
| PT | vaccines and therapeutic agents | | | | |
| XX | | | | | |
| PS | Claim 1; Column 16; 15pp; English. | | | | |

| | |
|-----------|---|
| KW | vaccine; neutralising epitope. |
| XX | |
| OS | Chlamydia pneumoniae. |
| XX | |
| PN | M09927105-A2. |
| XX | |
| PD | 03-JUN-1999. |
| XX | |
| PF | 20-NOV-1998; 98WO-IB01890. |
| XX | |
| PR | 04-NOV-1998; 98US-0107078. |
| PR | 21-NOV-1997; 97FR-0014673. |
| XX | (GEST) GENSET. |
| PA | |
| PI | GriFFals R; |
| XX | |
| DR | WPI; 1999-357842/30. |
| XX | |
| PT | Genome sequence of Chlamydia pneumoniae |
| PS | Page 1415-1416; Disclosure; 1912pp; English. |
| XX | |
| CC | Y34584-Y35879 represent the proteins encoded by all the open reading frames in the complete genome (see X91990) of Chlamydia pneumoniae. |
| CC | C. pneumoniae causes respiratory disease such as pneumonia and bronchitis and is thought to be a contributing factor in heart disease, sarcoidosis, sinusitis, purulent otitis media, erythema nodosum or pharyngitis. The polypeptides encoded by the open reading frames of the C. pneumoniae genome (see Y34584-Y35879) can be used in immunogenic compositions as vaccines. Vectors containing C. pneumoniae nucleotides sequences can also be used as immunogenic compositions, especially where the vector directs the expression of a neutralising epitope of C. pneumoniae. |
| CC | |
| CC | |
| SQ | Sequence 810 AA: |
| OY | Query Match 21.8%; Score 60; DB 20; Length 810; Best Local Similarity 26.2%; Pred. No. 44; Matches 11; Conservative 12; Mismatches 19; Indels 0; Gaps 0. 2 DDDPKRYEDCRRRCMDTRGCKEQDCEESKSGYGEKDQQ 43 : : : : : : : : : Db 620 dedlrraytecqkrfygdsqlesevracreqrlrerigetfqtg 661 |
| RESULT 13 | |
| ID | Y34602 standard; Protein; 810 AA. |
| AC | Y34602; |
| DT | 13-SEP-1999 (first entry) |
| DE | Chlamydia pneumoniae transmembrane protein sequence. |
| XX | |
| RW | Respiratory disease; pneumonia; bronchitis; heart disease; sarcoidosis; sinusitis; purulent otitis media; erythema nodosum; pharyngitis; vaccine; neutralising epitope. |
| OS | Chlamydia pneumoniae. |
| PN | M09927105-A2. |
| PD | 03-JUN-1999. |
| PF | 20-NOV-1998; 98WO-IB01890. |
| PR | 04-NOV-1998; 98US-0107078. |
| PR | 21-NOV-1997; 97FR-0014673. |
| VA | (GEST) GENSET. |

XX Griffiths R;
PI
XX WPI: 1999-357842/30.
DR
XX Genome sequence of Chlamydia pneumoniae
PT
XX Page 625-627; Disclosure; 191pp; English.
PS
CC Y34584-Y35879 represent the proteins encoded by all the open reading
CC frames in the complete genome (see X91990) of Chlamydia pneumoniae.
CC C. pneumoniae causes respiratory disease such as pneumonia and
CC bronchitis and is thought to be a contributing factor in heart
CC disease, sarcoidosis, sinusitis, purulent otitis media, erythema
CC nodosum or pharyngitis. The polypeptides encoded by the open reading
CC frames of the C. pneumoniae genome (see Y34584-Y35879) can be used in
CC immunogenic compositions as vaccines. Vectors containing C. pneumoniae
CC nucleotide sequences can also be used as immunogenic compositions,
CC especially where the vector directs the expression of a neutralising
CC epitope of C. pneumoniae.

XX Sequence 810 AA;
SQ

Query Match 21.8%; Score 60; DB 20; Length 810;
Best Local Similarity 26.2%; Pred. No. 44;
Matches 11; Conservative 12; Mismatches 19; Indels 0; Gaps 0;

OY 2 DDDPKRYEDCRRRCCEMDPRGCKEQOOCESCKSYGKDDQ 43
| : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 620 dediraytecqkrfqgdsjlesevracreqrlriferfeyq 661

RESULT 14
W98879
ID W98879 standard; Protein; 1743 AA.
AC W98879;
XX
DT 31-MAR-1999 (first entry)
XX
DE H. pylori GHPD 1755 protein.
XX
KW GHPD protein; Helicobacter infection; gastroduodenal disease; gastritis;
RW peptic ulcer disease.
XX
OS Helicobacter pylori.
XX
PN W09843478-A1.
FN
PD 08-OCT-1998.
PD
PF 01-APR-1998; 98WO-US06371.
PP
XX 29-JUL-1997; 97US-0902615.
XX 01-APR-1997; 97US-0833457.
PR 24-JUN-1997; 97US-0881227.
PR
XX (HUMA-) HUMAN GENOME SCI INC.
PA (INMR) MERIEUX ORAVAX PASTEUR MERIEUX SERUMS.
PA
PI A1-Garawi A, Kleanthous H, Miller C, Oomen RP, Tomb J;
PI
XX WPI: 1998-542293/46.
DR N-P5DB: X14598.
DR
XX New isolated Helicobacter polynucleotides - used to develop products
PT for the diagnosis, prevention and treatment of Helicobacter
PT infections and gastrointestinal diseases
XX
XX Claim 8; Page 2000-2008; 2054pp; English.
XX This sequence represents a Helicobacter pylori GHPD protein of the

